Sequence

TCA GGC. GGA GTG TAA CCA AAA ATG TAC CAC ATT GGT TTT CCI CCG AGT TCT TCA AGA TGCG AGG GGT GCA AGG AGT TCC CGI CCA TCC ACGC  $\forall$ 

ACA TCG GCC ATG CTT GCG AAA TGG ATA CGC TTT ACC TAT GAA TAC CGG AGC AAT TTA GCA CGT TGT ACA TAT ATA TGT ACA CAG 46

AAG GAA AAT GCC GGA TGC ATA 91 E TCA TTC TTA CGG CTTCCT ACG

TCG

AAG TTC

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CCT

CTG

45 | TTA AAT

	E &	0 0	O		14 L.	0 0		
	CAT	909 090	ACC	990 000	TTG	AGA	GTG	
	39  -   GCT   CGA	CCA	ATG	ACT TGA	TCA	AGA TCT	GTG	
	TCT		AGT	CCA	AGA TCT	000 000	990 000	
•	33 - 229 000		AGC	CAA	TCG	CCA	ATG	
	AAG (		TGA	GCA	ACT	CTG	GTG	
	27   		CCT	CCT	ACA TGT	CCA	900	
	ACA (		CAA	CCT	ATG	CCA	TGT	
Ω.	21 ACC A		TGT	ACG	TCC	ACG	AAC TTG	
Fig.2.	ACC		TGG	CCA	TCA	TAC	GTA	
		AAG	CGT	TCT	AGG	CTG	CTG	
		GCT	CGT	TCA	CTA	CCA	CCT	
		GGT	GTT	AGG	TCG	TGA	GAC	
73		rga ggt cca	CAT	ACA TGT	CTC	TGA	ATG TAC	
e E		AGG GAG CTC	ACC	CTT	CTC	GTC	TGG	
ence	₩.	46	91	136	181	226	271	
Sequence								

TAA ATT AGC GCT GCA 900 000 000 CCA TCC AAT 000 000 CCG TTC TCA ATA TAT AGA AGC TCG 316

CAG GTC CTC GAG

ည် ၁၃၅	TCG	AGA TCT	GCA	TCA AGT	909 090	TGC	TCG	GGT	GCA
AAT G TTA C	AGG T TCC A	CAC A	GCA (CGT (	ATA	CAG	CCA	GTG	CGT	999 000
ACC A TGG T	ATC A TAG 1	CAG C	GAG CTC (	2 225 200	CTT	000 000	GGA	GTG	AAA TTT
GTT A CAA T	GTC A	CTG C	990 000	CTC (GAG (	TTT	ATT TAA	TCA	CGA	GAA
0 0 0 0 0 0	AAT G TTA C	) ) ) ) ) )	AGC (TCG (	AGC (TCG)	AGG	CAA	ATG TAC	900 000 000	AGA
CAT GGTA C	GTC A	AAA (TTT (	, 555 CCC 7	CAG	TAA	ATG	AAA TTT	GAG	GAA
TTC C	CGA C	TGT A	AGG TCC	CGA	GTG	CAT	GAG	CAT	ACG
ACC T	AAA C TTT C	GAG CTC 2	GAA	000 000	AGG	GTA	909 090	33 33 33 33 33 33	GAA
CCT A	AGA A	TTC (	GAA ( CTT	CTG	TGA	AGT TCA	TAT ATA	GGT	AAT TTA
ACC O	ATC P	AGC 7	GCA (	TGT	ATG	TGC	CTA	TGC	TGC
ACA A	CAA A	TCC 7	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	TCT	CAC	AAA TTT	TAT ATA	TCT	CCA GTG GGT CAC
GAC A	ACC O	GTC 7	GAG (CTC (	ATG	GCT	CAA GTT	GGA	ATG	
GCA G	AAC 7 TTG 1	ACT (TGA	995 095	GCT	0 0 0 0 0	AAC TTG	AAT TTA	GAA	GAA
GCA C	GAC 7	GGA Z	CGA	AGA TCT	CAA GTT	TGT	CGA	GAA	GGA
CCT GGA C					CTA	GAG	TTG		
361 0	406 7	451 7	496	541	586	631	919	721	166

. 8111	1 GAG CTC	GGA	AAA TTT	AGA	CAA	ATT TAA	995 995	CGT	CAG	TAC	GAC	GAC		C AGT	
856	5 TCA AGT	CAT	900 000	TCC	CAT	CAT	GCA	ATG TAC	TGA	000 000		TCC B AGG		TCC	TCC GCC AGG CGG
901	1 CGC GCG	TAG	AAT TTA	TCT	GGA	ATG	TGT	GCA	GCA	CGA	4	GGT		GGT	GGT GGT CCA CCA
946	6 CCT GGA	GAA	TGA	GAA	GCT	AAT TTA	GGA	ACA TGT	GAA	CAG		ATT TAA		ATT TAA	ATT GAA TAA CTT
991	1 CCC GGG	CCT	CAC	TGC	CAA	TCA	GAA	GTC	GTT	GAT		000 000	CGC AAG GCG TTC		AAG TTC
1036	6 GTA CAT	CCA	GGA	AGG	CTA	TGA	ACA	ACC	TTC	CGA		GGA	GGA AGA CCT TCT		AGA
1081	1 GGT CCA	TAC	ACA TGT	GTC	GGA	CGA	GGA	CGA	CGA	AGA		CTC	CTC GGA GAG CCT		GGA
.1126	၁ <u>၅</u> ၅၁၁ 9	TCA	GAT	TAC	CGA	GAT	GAC	GAT	TCT	CAC		AGT	AGT GCA TCA CGT		GCA
1171	1 AGA TCT	ATT TAA	909 909	TAA	999	CCT	000 000	999 CCC	CTT	000 000		CAA	CAA GAT GTT CTA		GAT
1216	6 GGA CCT	CCA	GAT	CAC	GTT CAA	ATT TAA	AAA TTT	900	GTG	CTC	٠, ٢	AAG TTC	AAG TGA FTC ACT		TGA
1261	1 GCT CGA	9 9 9 9 9 9	AGT	999 000	TCG	909 000	GTA	TGA	000 000	990 000		CAC	SAC CGA		CGA

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900	GTG	TAC	CCT	GGT CCA	CAT	000 000	CAG	CGT	TCT
CAA GTT	TCG	GCT	ACC	ACG	CGT	GCT	GAA	GGA	992 CGG
000 000	CTG	GCT	GCA	GCT	000 000	CAC	GAA	9 9 9 9 9	999 999
CTA GAT	CTT	TGC	TGA	CAC	ညည်	000 000	GCT	CGT	ည် ၁၃၅
CAA	GCA	TTA AAT	GCT	GAA	၁၅၅	GAT	CAA	GGA	999
CGA	GCT	GCA	) 990	CCT	990	GGA	CCT	CTG	GGA
TCG	CCT	CGT	000 000	TTA AAT	GTC	GAC	CTC	GAT	999
CAC	GGA	TAA	000 000	ATA TAT	000 000	ACT	CAT	GGA	990 000
GTA	CGA	GGA	AGA	GAG	CAG	CAT	GTG	CGA	GGT
999	CAT	GAT	CTC	CCA	GAA	999 000	CAT	CCT	999
CCA	CGT	GAT	CTT	CAT	CCA	CCT	CAA	GTT	GAC
CAA	GTA	CAT	CAT GTA	GGA	GAA	GAT	CTC	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	999 999
GAA	999 209	CTC	TGT	GGA	CCT	CGA	GAA	950 066	GAC
000 000	CAT	GTA	CAT	GGT	CAT	000 000	GCA	GCT	GAC
GTT	AGG	CAT	AGC TCG	GTT	GTA	CTT	CAT GTA	GAA	999
1306	1351	1396	1441	1486	1531	1576	1621	1666	1711

## Fig.2 iii

000 000	SCA	CGA GCT	ဗ္ဗ ဥ
0 0 0 0 0 0 0 0 0	AGT (TCA (	CTG (GAC (	TAC (ATG (
CTA G	TGA A	GGA C	TCG 7
CGT C	TAG 7	TAA (ATT (	ATT TAY
CAC GTG	TTT	TTA	900
000 000	TAG	TAT ATA	TAC
990 000	900	ACC	000 000
990 000	ACT TGA	TCA	CAC
000 000	TAG	TGA	GCA
000 000	TCA	ACG	AGG
900 000	000 000	TCG	AAG
000 000	GAA	ACG	CTT
0,00 0,00 0,00	AGA TCT	CTG	CCA
000 000	AGG	ACA TGT	TTA AAT
AGC	CTC	ეეტ ეტე	ATT TAA
1756	1801	1846	1891

1934. .. S Total number of bases

Fig.3.
The sequence shown below is that of pSK16.1

Sequence ID3

45	GAG	ე <u>ე</u>	ATC TAG	AGC	000 000
	CTC	CTG	GAG	TAC ATG	CAG
39	ATG	990 000	555 555	ACT	CAG
	CGA	CTG	TCG	ATC TAG	CAG
33	CTG	GCA	355 355 355	9 9 9 9	GAG
	ACG	TCA	CTC	GAT	ATG
27	CAG	TCT	TCG	GAC	ACC
	TTC	TCG	GAA CTT	TAC ATG	TGC
21	CCA	ACG	$\frac{1}{2}$	900	ACC
	GGA	GTG	TCC	TGG	000 000
15	AAC TTG	GAG	ATG	CTG	CTG
	AAC TTG	TCT	GTG	GAG	TCG
თ –	TAT ATA	TCG	ATG TAC	CTG	CAG
	TGG	AGC	GCT	995 995	GCA
m –	- 000 000 000	GAG	000 000	900 000	ATG
	4	46	91	136	181

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ATG TAC	TCA	AAC TTG	CCA	AGA TCT	AAA TTT	TGC
TCC	GAG	GTA	900 000	GAC	TGT	ATA
CCT	AAC TTG	AGT	AAA TTT	9 9 9 9 9	999	TAC
CTA GAT	GAA	TCG	AAG TTC	TGC	GAA	GTG
000 000	TCA	GCT	CAG	GTC	TGT	GCA
CAA GTT	AAA TTT	CCA	000 000	CTT	ACA	AAT
ACA TGT	000 000	TCT	AGG	TGT	CTC	AAA
CAG	ACA	CTG	909	CTA	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	ACC
CAG	ACA TGT	GAA	GAG	GAG	AAC TTG	GTA
000 000	000 000	GAG	999 999	GAA	TAC	AGT
CAG	CCA	CGT	GAT	CAA	CAC	CGG
CAG	ATG	GGT	ACA	CAG	TAT ATA	AGG
CAG	CCA	TCA	AGC	AGG	GGA	TTC
000 000	TTA AAT	TCA	TGC	000 000	TCC	TTC
CAG	ეეტ ეტე	ATG	990 900	909	990 000	GGT
226	271	316	361	406	451	496

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ACG	AAA TTT	AGG	AAA TTT	ACG	CCT	GAG	AGA	ATC TAG	GAG	GAC
TAT 7	AGA	ATG	229	AGT	GAC	CAC	AAC TTG	TTG	TCC	GAA
ATG	200	200	AAA TTT	GTC	TGT	CAG	CAG	TCG	CCT	GAC
CAC	ATG	GTG	ATG	ညည	CAA	GTG	GAA	AAG	CAA	GAC
CGT (	TAT	9090	GCA	TTG	ATG	TGT	ATG	CAG	GAA	GAG
TTA	ATC	CTT	TGT	AAA TTT	ATC	GAA	CTA	AAT TTA	TAT ATA	GAC
TTT	GAT	TGT	CAG	GAC	ညည	CTG	AAG	990	999	TCG
TGG	ATG	AAA TTT	AAC TTG	AAA TTT	CCT	ATT TAA	GAG	ACT	GAA	CAG
CAT	GAA	AAG	GAG	GAA	ATG	AGA	AAT TTA	CTC	CAG	ACA TGT
TCA	TGC	TTG	000 000	AGG	CAC GTG	GCT	CTG	000 000	TAC	GTT
, ၁၁ <del>୭</del>	GCT	000 000	GTG	CAG	GAT	995 995	TTC	000 000	TGG	AGG
TCC	CAT	TGT	GTG	900 000	GAC	GAG	CGA	GTG	GTG	AAG
AAG	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	GAG	TGC	AAG TTC	GTA CAT	CCA	CCA	AAC TTG	CTC	CTG
AAG	TTC	CAG	GAG	AAA TTT	ACA TGT	ပ္ပ်ပ္ပ် ဗိမ္မာ	GTG	AAG TTC	AGG	GAC
CCA	AAA	TGT	) ) )	GAG	ACG	၅ ၅ ၅	GTG	TTG	GCA	GAA
J	541	586	631	919	721	766	811	856	901	946

Fig.3 ii

Title: METHOD FOR CONTROLLING

GENE EXPRESSION IN A CELL Inventor: Jepson et al. Atty Docket: 1392/4/3/2

ACA TGT	990 000	TCA AGT	990 000	GAC	CTG	CAT	000 000	CTG	000 000	GAG
CTC 7	TTC (	ACG	909	000 000	CTG	GTG	000 000	TAC	TCG	ACG
ATT (TAA (	2000	. 292 292	GAC	ACT TGA	GAC	AAC TTG	) (000 (000	TAT ATA	909 090	CTG
ACG 7	) ) ) ) )	AAG	TAT	TAC	GAG	GAT	GAC	AGA	AGC	ATA
ATG Z	CTC (	TTA	990 990	ဗ္ဗင္ဗဗ င္လဗ္ဗင	ATC	ATG	TCA	CAG	AAC TTG	ටවුව
GAG Z	9 9 9 9 9	TTA	ဗ္ဗဗ္ဗ	CAG	GTC	ATG	TTC	ATC	CAG	CTG
ACC (TGG	AAG	ACG	GCT	AAC TTG	TAC	ATG	ATC	GAC	AAC TTG	ATC
ATT	GCT	ATC	GTG	AAC	၁၅၁ ၁၅၁	TCC	GTC	GAG	CTG	GAG
CAG	TTC	CAG	CGA	909	ATG TAC	TAC	ATT TAA	GTG	ATC	999
CGT	GAA	GAC	CTC	TTC	999 999	ATG TAC	992 229	TTG	TAC	TTC
TTC	GTA	TCG	ATG	CTG	GCA	TGC	ACA	CTG	GTG	ATC
000 000	ATC	CAG	ATG	GTA	AAG	000 000	CTT	555 666	0 0 0 0 0	GTC
ATG	CTC	TCG	GTG	AGC	000 000	TGT ACA	CTG	CAA	CTA	OCC .
GAT	CAG	ATC TAG	GAG	GAC	TAC	TTC	900	GAG	ACG	299
TCG	GTG	AAG TTC	AGT	ACC	AAC TTG	CAC	TAT ATA	CTT	AAC TTG	ემე
991	1036	1081	1126	1171	1216	1261	1306	1351	1396	1441

CTC	CTC	TGG	GAG	990 000	AGT TCA	ATT TAA	ACC	GTG	ATT TAA	GAT
TGC (	TCC (	ATC	) (000 (000	999 ၁၁၁	GCT	CCT	CGT	CGT	TAT ATA	922 299
GAC	ATC	GAG	200	000 000	CTG	CAA	ACC TGG	GAG	ATA TAT	900 000
TAT (	TGC	GAG	GTG	ეე <u>ნ</u> ეეე	AGA	GAT	CAC	GCA	AGA	GTC
, 500	ATG	CTC	000 000	990 000	CAT	CGT	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	GAT	TGG	CCG
GAC	AAC	TTC	ACG	000 000	GCT	CGA	AGA	GAC	ATT TAA	TCG
TAG	TCC	999	909	၁၅၅	AAC TTG	CGT	TTA AAT	GAC	ACG	000
CTC	AAC TTG	၁၅၅	ACG	990 000	GAG	TGA	CAC	ACC TGG	TGA	ACG
ව්ධ	CAG	CTG	ACG	000 000	GGA	CAC	TAC	GTG	TGT	000 000
AAG	ATG	AAG	909 000	990 000	TCA	GGA	TTT AAA	TCG	TGT	990 000
TAG	999	AGG	GTG	CTA	993 209	CAC	GAA	TAT ATA	ATG	000 000
CAG	CTG	AAC TTG	GAC	CCT	000 000	GTG	TGC	ACG	TAT ATA	GTT
990	ACG	AAG TTC	900	909 090	TAG	GAA	GAC	CGT	GAA	GCT
SCC	292	CTG	GTG	၁၁၁ ၁၁၁	GTC	AGT TCA	AAG	TTT AAA	TGT ACA	GTT CAA
909	ATC	AAG	GAC	9 9 9 9 9	ACC TGG	TTT AAA	TAT ATA	CGA	TAA	GGT
_	1486	1531	1576	1621	1666	1711	1756	1801	1846	1891

TTG	TAC ATG	TAG ATC	GTT CAA	TTA AAT	GTC	TCG	AAT TTA	ATT TAA	AGT	AGT
GAG	AAG	TAT ATA	AAA TTT	TGA	CAC	TTA AAT	CTA	TTG	CAA	TTA
ACT	GAT	AGT TCA	TGA	CGT	GTC	355 355	CGA	GTG	ATA TAT	$\mathtt{TGT}$
ACG	TTC	GAG	999 CCC	ATA TAT	GCT	GGN	CCT	AAT TTA	ACA	TTT
TTT	TCG	TAC	ATT TAA	ATA TAT	TCC	TGA	GAC	TTT AAA	ATT TAA	GCC
TCG	ACT	GCT	TCT	ACA TGT	TCG	ACG TGC	9 29 20 3	CAT	CTT	CAA
ATT	AAG TTC	GTA	GTT CAA	TTA	GAG	CAC	990 990	TTA AAT	TGT	GAG
TTT	GAT	TAC	GAT	AAA TTT	GAT	ATG	TGT	TGA	GTG	CAC
AGT	TAT ATA	ACG	GAA	CCA	TGT	CTG	TCC	CTG	TAA ATT	CCA
TTC	CTG	CAT	GAA	TTA AAT	TAT ATA	TTT AAA	TCG	TTG	ATA TAT	CTT
999 999	CGA	ACA TGT	TAA ATT	TAT ATA	TAA	TTG	CCA GGT	TTA AAT	GTG	TAG
000 000	ATA TAT	ATT TAA	ATA TAT	GTT	GTA	TGT	GTT	AAT	AGG	CGA
995 000	000 000	TAA	AGA TCT	TAT ATA	CGA	ACA	ATG	TTT AAA	CAT	CGT
900	ACT	TAC	CAA	AGT	TTT AAA	GTC	TTC	TAA	TAC	TGT
၁၅၁၅	GTC	ACC	AGA TCT	GAT	ACC	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	TGT ACA	GAG	ATC	GTG
1936	1981	2026	2071	2116	2161	2206	2251	2296	2341	2386
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CAC ACA GCA GCT ATC GAA GGT GTG CTC GTT CGG AAA ACA AAT TCA O O CTT GAA 000 000 000 GAC CTC TGG ACA O ACA CTG TTA GAT 2431

Total number of bases is: 2464.

Sequence ID 4 Fig.

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CAT		GC(	Ø	0  -  AAT	×	0 ACG	z	0  	ø
460      CAG	<u>ເ</u>	520    GCA(	ø	580      CAA	Ω,	640   TAAA	>	700      AGCA	Ø
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440 	⋈	500 	Ø	560      CCA	മ	620  -    CTG	口	680      SAAA	×
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	AAG	×	CTJ	æ	TTC	H	AAA	×	GAT	Ω
	GTA	U	ATG	<b>=</b>	GTC	ບ	90	æ	3AC	Ω
770	GGT	ဖ	830    GGCC	ტ	890    AAA1	×	950      AAA(	×	1010   :AGTA	>
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760	AC.	E	820   'ATG	Ö	880  -  -	114	940   GTG		1000    GTAC	
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	ည္ဟ	æ	racz	⋈	3AG	回	AAC	Z	GTC	>
	ACG	z	J. T.G.	>	CAG	Q	o - GAG	្រា	0 - 0	ሷ
750	ACA	₩	810  -  CAG	æ	870  -  GTC	ပ	930             	Д	990   TTGC	h
	ACT	Ħ	ATG	z	AAA	×	a T G	>	AAA	×
	ATC	<b>&gt;</b> +	AAA	×	GAZ	ĸ	Ä	>	3AC	Д
740	GAT	<sub>G</sub>	800  -  -	E	860  -  -	œ	920  -  -	Ö	980      AAA(	×
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1560	ACCGCAAGGCAGGCATGGCGTACGTCATCGAGGACCTGCTGCACTTCTGTCGGTGCATGT	×	1570 1580 1590 1600 1610 1620 	ഗ	1680	ACCGGCCCGGGCTTGAGCAACCCCTGTTGGTGGAGGAGATCCAGAGATATTACCTGAACA	z	1690 1700 1710 1720 1730 1740               CGCTACGGGTTCTTTCG	Ĺ
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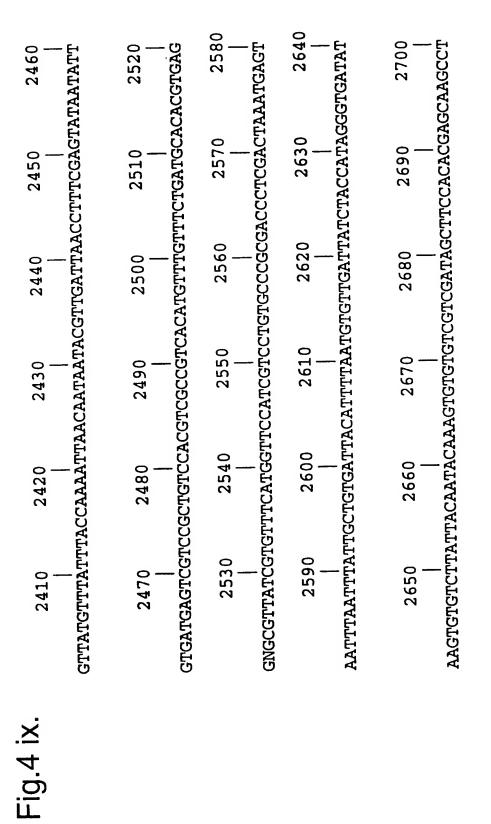
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Title: METHOD FOR CONTROLLING

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•	2050	2060	2070	2080	2090	2100
	AGGACTGCGAATTTTACCACTTAAGAGGGCACACCCGTACCGATTTCGTACGTA	TTACCACTT	aagaggcaca	cccgraccc	ATTTCGTACG	TATTCGG
	2110	2120	2130	2140	2150	2160
	TGACCGACGACGAGCGTGTGTAATGTGAATATATGTGTTGTTGAACGATTTGGA TTGGA	 TGCAGAGCG'	 TGTGTAATGTG	 AATATATGTG	  TTGTTGAACG	 Atttgga
	2170	2180	2190	2200	2210	2220
	     GAATATATATTGGTGTTGCTGTTCGGCCCCGCACGCCGTCGGCCGGTCGGCGGCGATCGCG	rgttgctgt	ICGGGCCCGCA	CGCCGTCGCC	GGTCGGCGGC	GATCGCG
	2230	2240	2250	2260	2270	2280
	GCGCCCGCGGCTTCAGTTTTATTTCGTTTACGACTGAGTTGGTCACTCGGATACGACTGT	CAGTTTTAT	TTCGTTTACGA	crgagriggi	cactcggata	ccacter
	2290	2300	2310	2320	2330	2340
		 :GTTCGATAA	GTACACCTACT	  AAATTACACP	TACGTACGTA	GCTTACG
	2350	2360	2370	2380	2390	2400
		i Bacaaagaat	  ATAAGAAGAAG	, ATGTTTCTA1	TGGGTGAAAA	GTTGATA

Inventor: Jepson et al. Atty Docket: 1392/4/3/2



TTTGTTTTAAGTGATTTTACTGACATGGACACTCGACCCGGAACTTC

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		16	107 47 64 23 46
Fig.5.	MRVENVDNVS 10	FALNGRADEWCMSVETRLDSLVREKSEVKAYVGGCPSVITDAGAYDALFD -SLGARGYRRCDTLAD -SLGARGYRRC	M-RRRWSNNGGFP-LRMLEESSSEVTSSSA-LGLPPAMVMSPESLASPEY M-RRRWSNNGCFP-LRMFEESSSEVTSSSA-FGMPAAMVMSPESLASPEI M-RRRWYNNGGFQTLRMLEESSSEVTSSSA-LGLPPAMVMSPESLASPEI M-K
Sequence	BMECR MSECR HVECR CLECR AAECR	BMECR MSECR HVECR CLECR AAECR	BMECR MSECR HVECR CLECR AAECR

114 55 72 33 78	121 61 77 46 98 147	154 114 134 134	190 130 146 98 173 247
GALELWSY	DDGITYDDGITTNKKQRLESDETMNHKKQRLESDETMNH	NTAQSLLGACNMQQQQLQPQQPHPAPPTLPTMP YPAQSLLGACNAPQQQQQQQQQPSAQPLPSMP YSMAQSLGTCTMEQQQPQPQQQQPQQTQPLPSMP YSMAQSLGTCTMEQQQPQPGFSSPDVNYEAYSPNSKLDDGN NQTNMNLESSNMNHNTISGFSSPDVNYEAYSPNSKLDDGN MASQAVQANANSIQHIVGNLINGVNPNQTLIPPLPS	LPMPPTTPKSENESMSSGREELSPASSINGCSADADLPMPPTTPKSENESMSSGREELSPASSINGCSTDGELPMPPTTPKSENESMSSGREELSPASSVNGCSTDGE MSVHMGDGLDG
BMECR MSECR HVECR CtECR AaECR DMECR	BMECR MSECR HVECR CLECR AAECR DMECR	BMECR MSECR HVECR CLECR AAECR	BMECR MSECR HVECR CLECR AAECR

240 180 196 148 223	289 230 246 198 273 347	315 256 272 248 306 389	360 301 322 286 344 427
ARROKKGPAPROOEELCLVCGDRASGYHYNALTCEGCKGFFRRSVTKNAV PRROKKGPAPROOEELCLVCGDRASGYHYNALTCEGCKGFFRRSVTKNAV ARROKKGPAPROOEELCLVCGDRASGYHYNALTCEGCKGFFRRSVTKNAV KSSSKKGPVPROOEELCLVCGDRASGYHYNALTCEGCKGFFRRSVTKNAV AKKOKKGPTPROOEELCLVCGDRASGYHYNALTCEGCKGFFRRSVTKNAV AKKSKKGPAPRVOEELCLVCGDRASGYHYNALTCEGCKGFFRRSVTKSAV AKKSKKGPAPRVOEELCLVCGDRASGYHYNALTCEGCKGFFRRSVTKSAV	YICKFGHACEMDMYMRRKCQECRLKKCLAVGMRPECVIQEPS-KNKDRQR YICKFGHACEMDMYMRRKCQECRLKKCLAVGMRPECVVPESTCKNKRREK YICKFGHACEMDIYMRRKCQECRLKKCLAVGMRPECVVPENQCAIKRKEK YCCKFGHECEMDMYMRRKCQECRLKKCLAVGMRPECVVPENQCAIKRKEK YCCKFGHACEMDMYMRRKCQECRLKKCLAVGMRPECVVPENQCAIKREK YCCKFGRACEMDMYMRRKCQECRLKKCLAVGMRPGCVVPGNQCAMKRREK	QKKDKGILLPVSTTTV	DPPPPEAARIHEVVPRYLSEKLMEQNRQKNIPPLSANQKSLIARL DPPPPEAARIHEVVPRFLTEKLMEQNRLKNVTPLSANQKSLIARL DPPPPEAARILECVQHEVVPRFLNEKLMEQNRLKNVPPLTANQKSLIARL DPPPHPMQQLLPEKLLMENRAKGTPQLTANQVAVIYKL DPPPHQAIPLLPEKLLQENRLRNIPLTANQMAVIYKL EPPQHATIPLLPDEILAKCQARNIPSLTYNQLAVITKL **
BMECR MSECR HVECR CLECR AAECR DMECR	BMECR MSECR HVECR CLECR AAECR	BMECR MSECR HVECR CLECR AAECR	BMECR MSECR HVECR CtECR AAECR
: <b>=</b>			

Title: METHOD FOR CONTROLLING

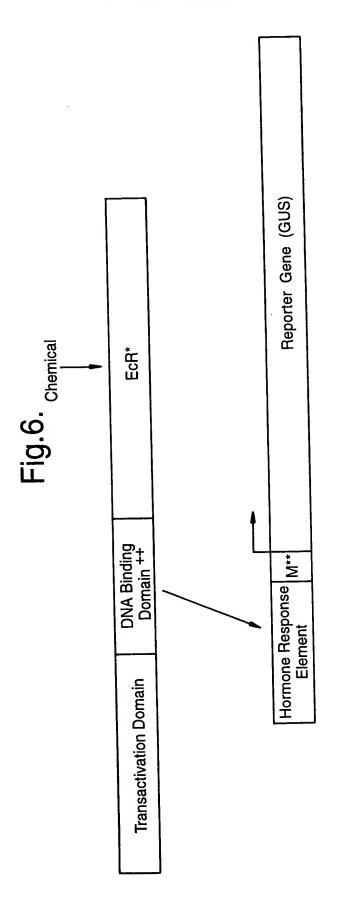
GENE EXPRESSION IN A CELL Inventor: Jepson et al. Atty Docket: 1392/4/3/2

409 351 368 334 392 474	459 401 418 384 442 524	509 451 434 492 574	559 501 518 484 542 624
VWYQEGYEQPSDEDLKRVTQTWQ-SDEEDEESDLPFRQITEMTILTVQLI VMYQEGYEQPSEEDLKRVTQTWQLEEEEEEETDMPFRQITEMTILTVQLI VWYQEGYEQPSEEDLKRVTQSDEDDEDSDMPFRQITEMTILTVQLI IWYQDGYEQPSEEDLKRITTELEEEEDQEHEANFRYITEVTILTVQLI IWYQDGYEQPSEEDLKRIMIGSPNEEEDQHDVHFRHITEITILTVQLI IWYQDGYEQPSEEDLRRIM-SQPDENESQTDVSFRHITEITILTVQLI ** *** ******************************	VEFAKGLPGFSKISQSDQITLLKASSSEVMMLRVARRYDAASDSVLFANN VEFAKGLPGFSKISQSDQITLLKASSSEVMMLRVARRYDAATDSVLFANN VEFAKGLPGFAKISQSDQITLLKACSSEVMMLRVARRYDAATDSVLFANN VEFAKGLPAFIKIPQEDQITLLKACSSEVMMLRMARRYDHDSDSILFANN VEFAKGLPAFTKIPQEDQITLLKACSSEVMMLRMARRYDHSSDSILFANN VEFAKGLPAFTKIPQEDQITLLKACSSEVMMLRMARRYDHSSDSIFFANN VEFAKGLPAFTKIPQEDQITLLKACSSEVMMLRMARRYDHSSDSIFFANN	KAYTRDNYRQGGMAYVIEDLLHFCRCMYSMSMDNVHFALLTAIVIFSDRP QAYTRDNYRKAGMSYVIEDLLHFCRCMYSMSMDNVHYALLTAIVIFSDRP QAYTRDNYRKAGMAYVIEDLLHFCRCMYSMMMDNVHYALLTAIVIFSDRP TAYTKQTYQLAGMEETIDDLLHFCRQMYALSIDNVETALLTAIVIFSDRP RSYTRDSYRMAGMADTIEDLLHFCRQMFSLTVDNVEYALLTAIVIFSDRP RSYTRDSYKMAGMADNIEDLLHFCRQMFSMKVDNVEYALLTAIVIFSDRP ** ** *******************************	GLEQPSLVEEIQRYYLNTLRIYIINQNSASSRCAVIYGRILSVLTELRTL GLEQPLLVEEIQRYYLKTLRVYILNQHSASPRCAVLFGKILGVLTELRTL GLEQPLLVEDIQRYYLNTLRVYILNQNSASPRGAVIFGEILGILTEIRTL GLEQPLLVEDIQRYYTETLKVYIVRDHGGESRCSVQFAKLLGILTELRTM GLEQAELVEHIQSYYIDTLRIYILNRHAGDPKCSVIFAKLLSILTELRTL GLEKAQLVEAIQSYYIDTLRIYILNRHCGDSMSLVFYAKLLSILTELRTL * * * * * * * * * * * * * * * * * * *
BMECR MsECR HVECR CtECR AaECR DMECR	BMECR MSECR HVECR CTECR AAECR	BMECR MSECR HVECR CLECR AAECR	BMECR MSECR HVECR CLECR AAECR
: <b>:</b>			

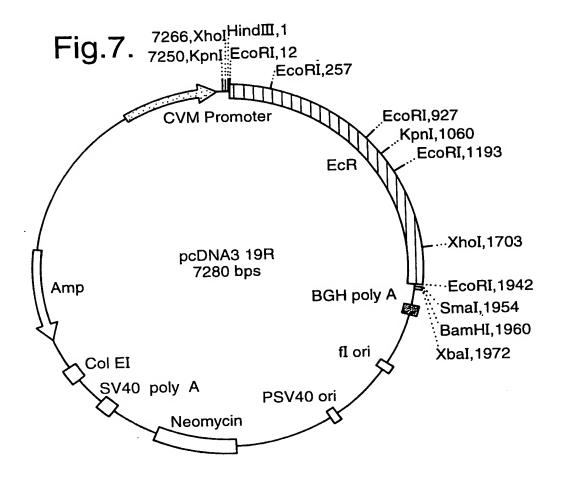
593 535 534 590 674	593 535 536 632 724	606 556 575 536 774	606 556 575 536 663 824
GTONSNMCISLKLKNRKLPPFLEEIWDVAEVARR			
BMECR MSECR HVECR CLECR AAECR	BMECR MSECR HVECR CLECR AAECR DMECR	BMECR MSECR HVECR CLECR AAECR DMECR	BMECR MSECR HVECR CtECR AaECR

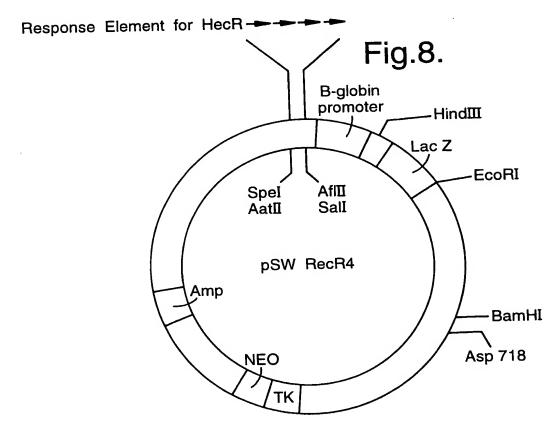
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606 556 575 536 675 874	
GVVPGLGMLDQVGVVPGLGWLDQV	606 556 575 536 675
BMECR MSECR HVECR CLECR AAECR DMECR	BMECR MSECR HVECR CLECR AAECR



++ Glucocorticoid receptor DNA binding and transactivation domains
\* Insect ecdysone ligand binding domain
\*\* Minimal 35S CaMV promoter





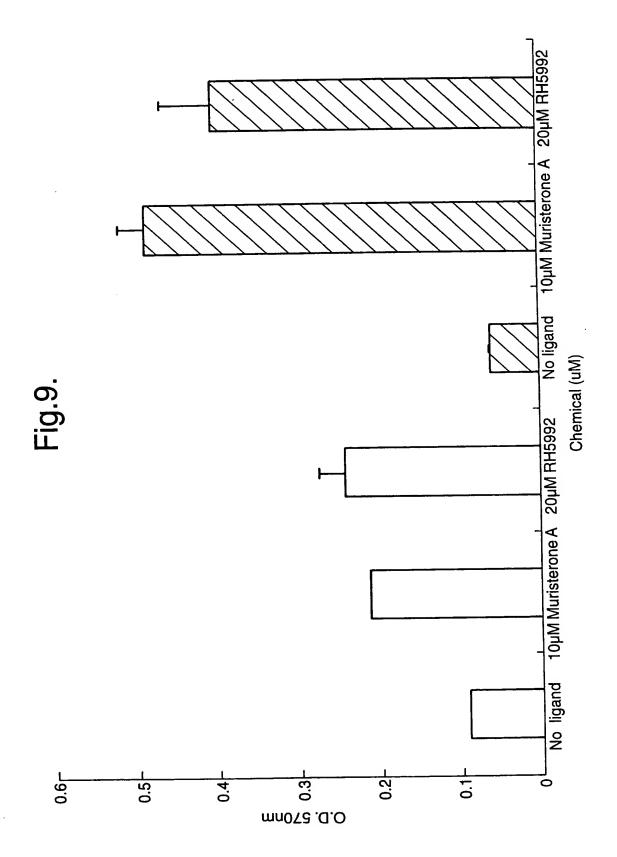


Fig.10.

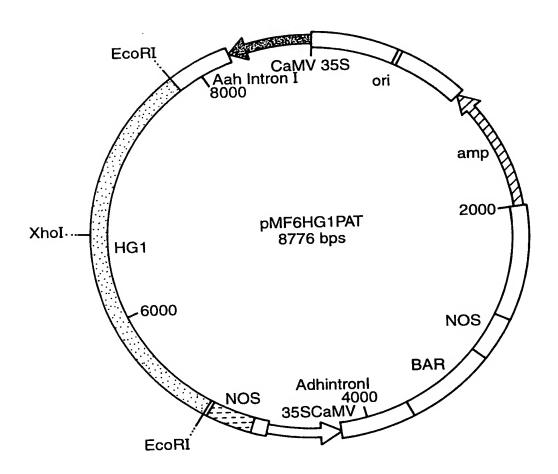
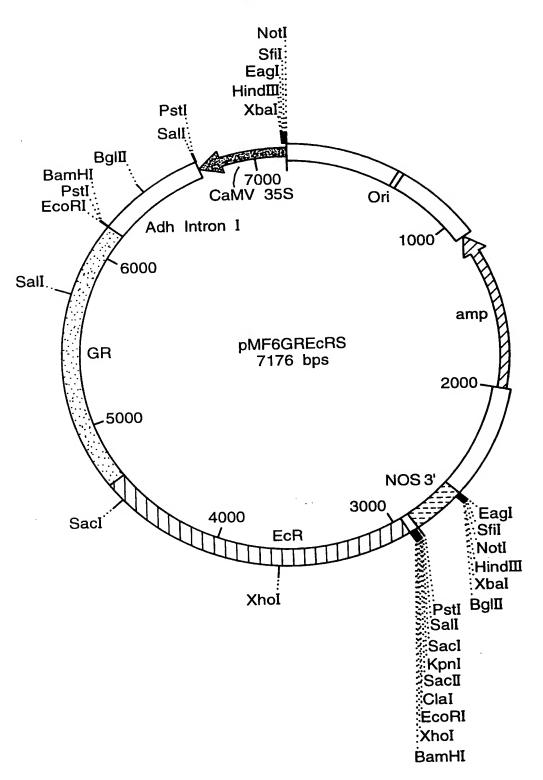
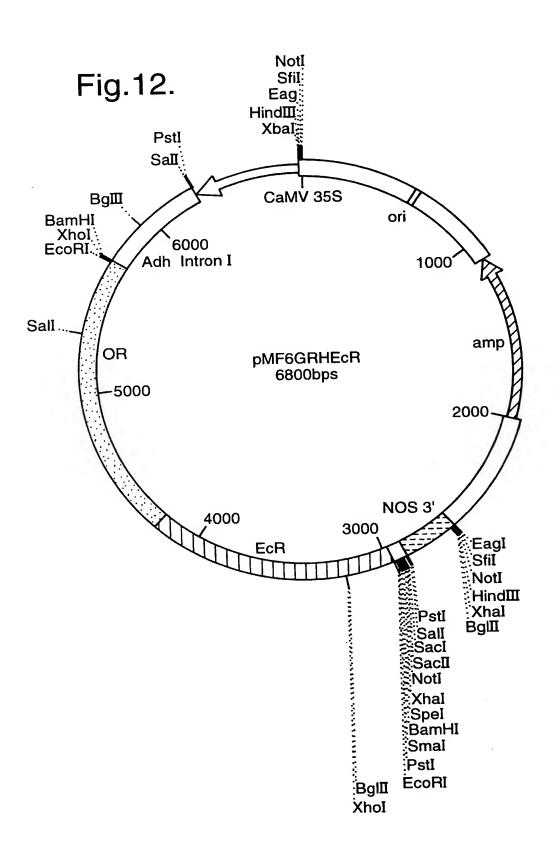
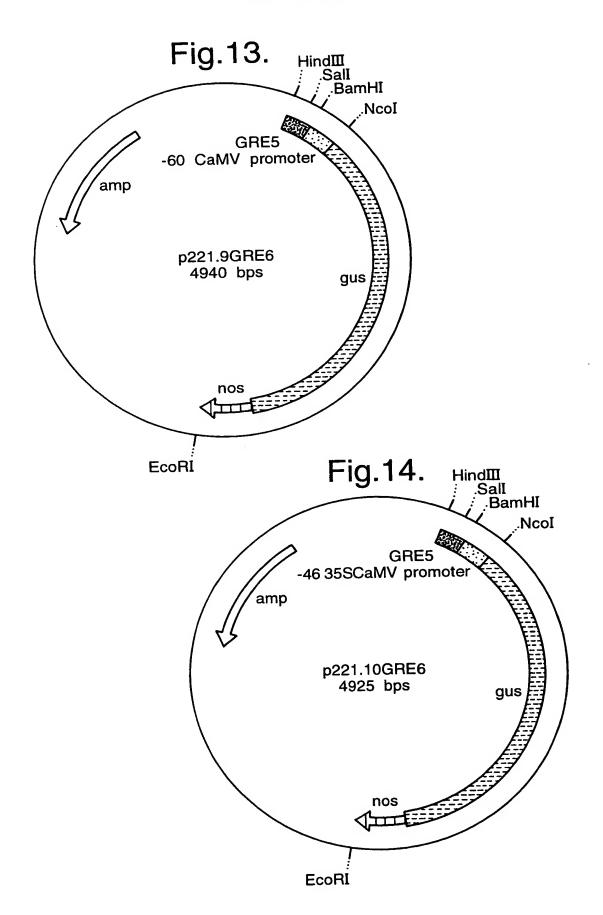
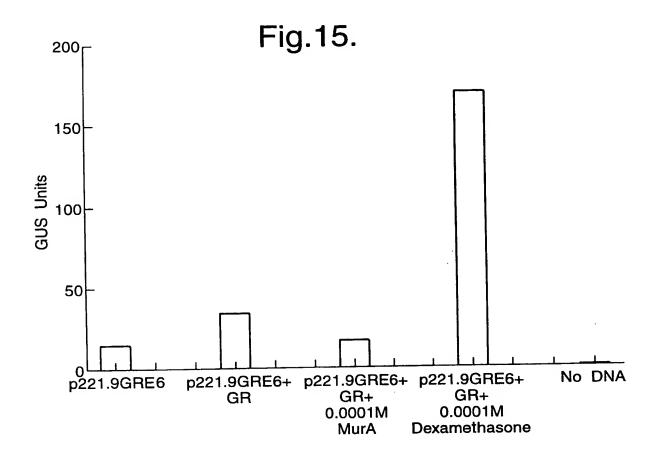


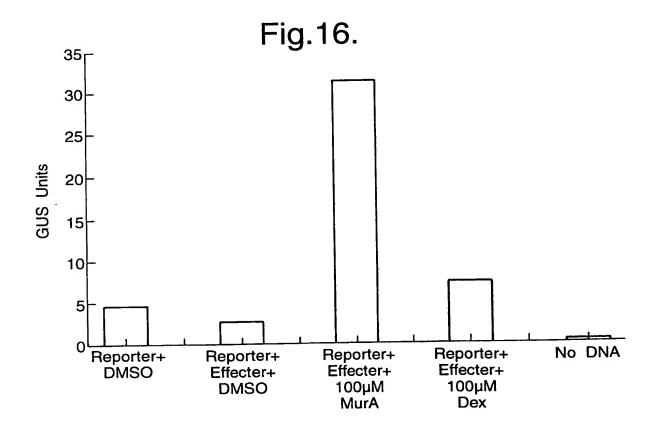
Fig.11.

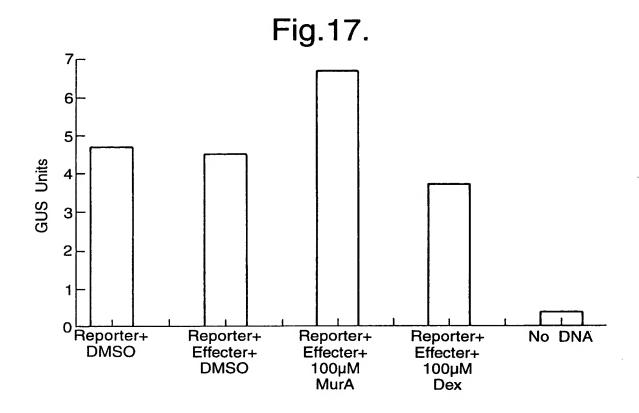


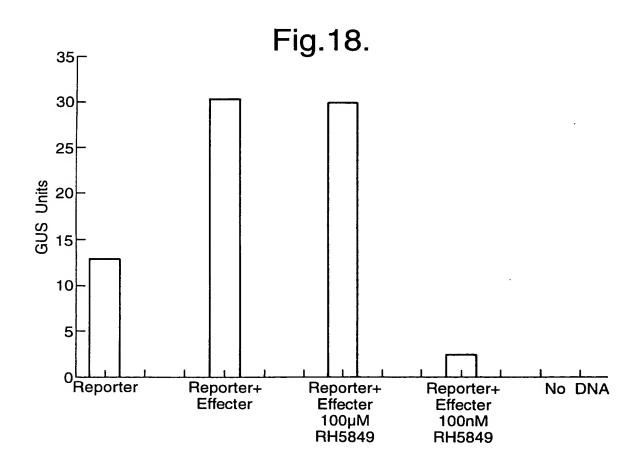


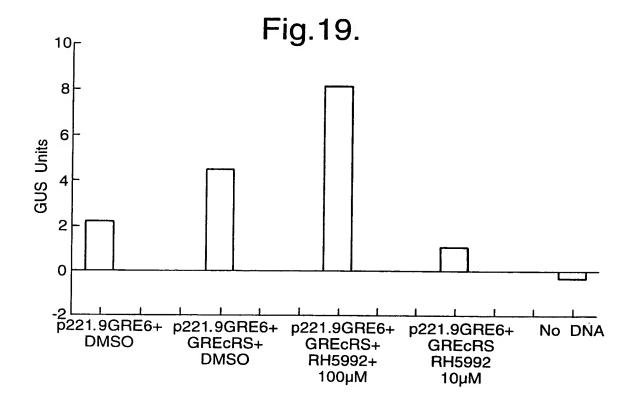


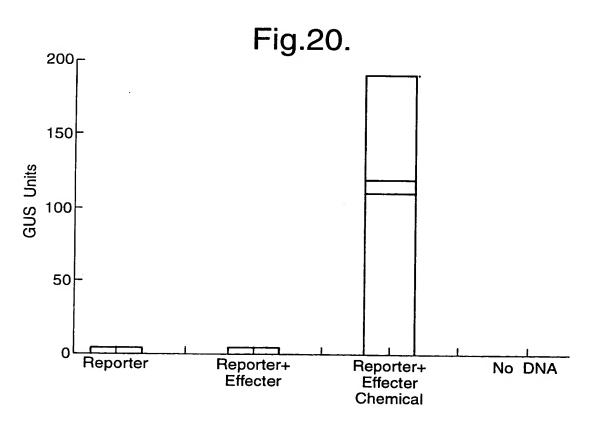












Title: METHOD FOR CONTROLLING GENE EXPRESSION IN A CELL Inventor: Jepson et al. Atty Docket: 1392/4/3/2

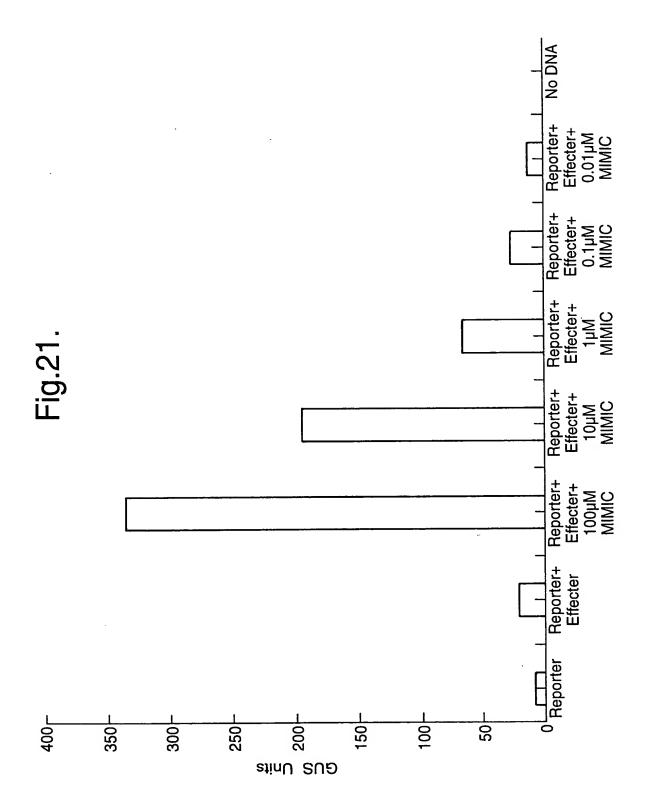


Fig.22.

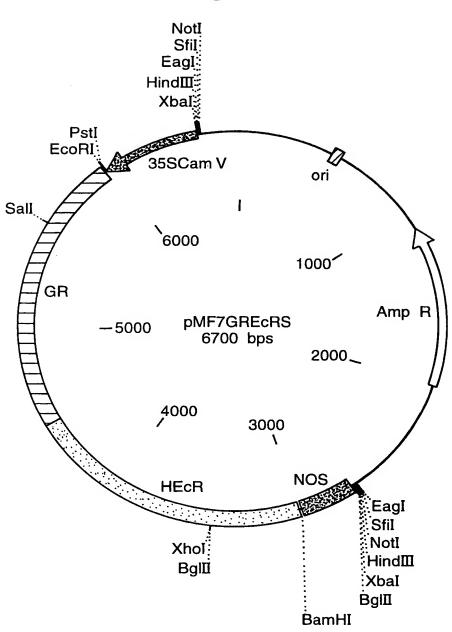
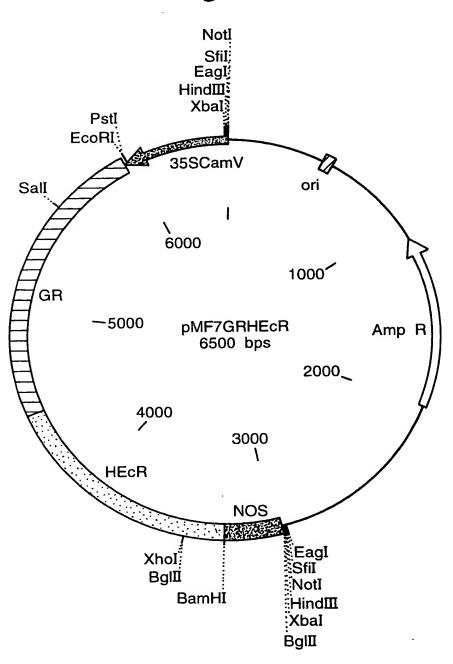


Fig.23.



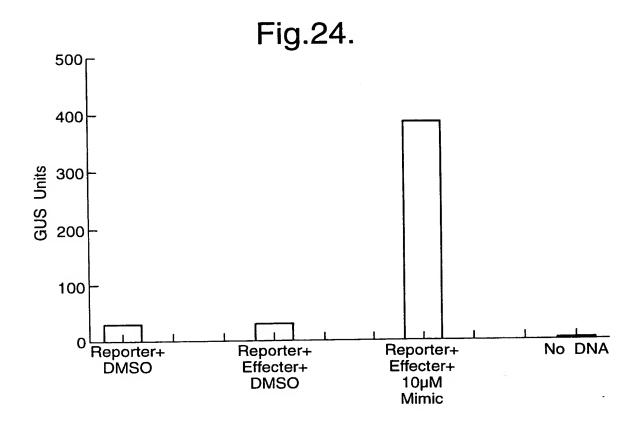


Fig.26.

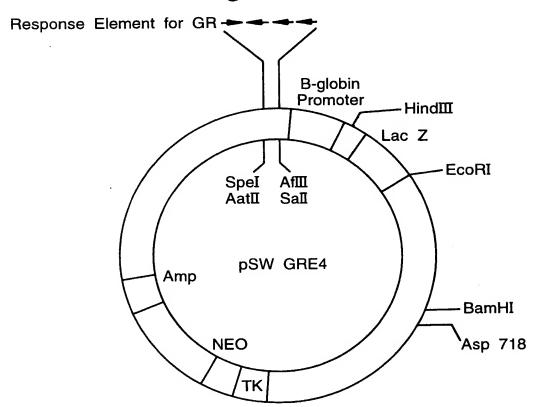
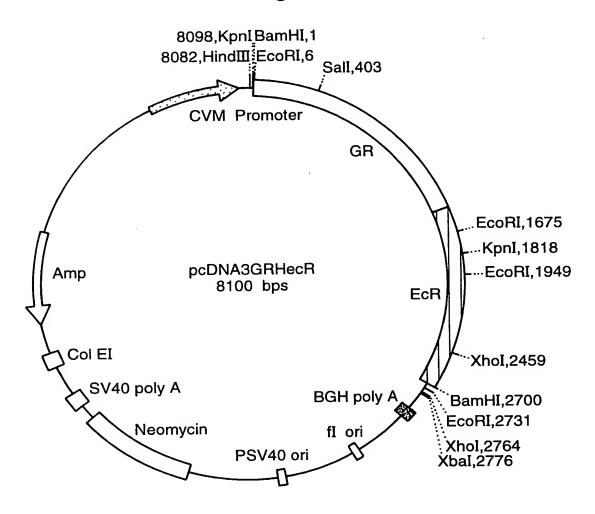
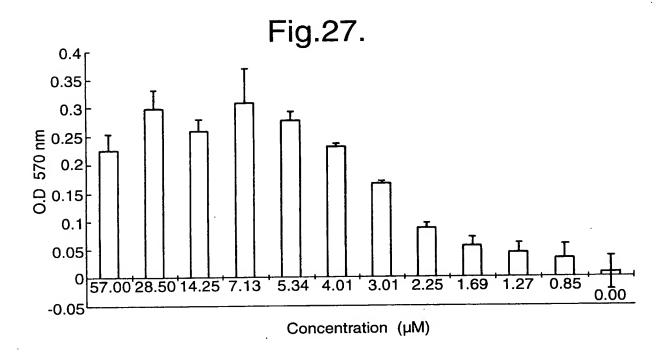
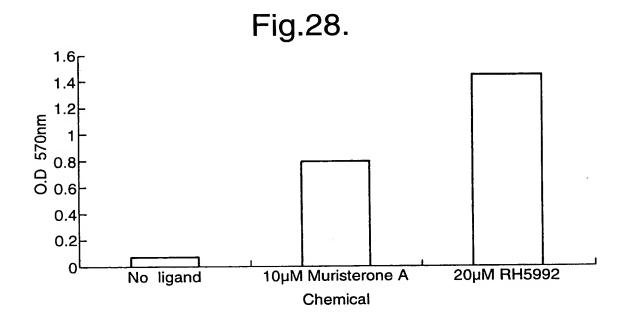
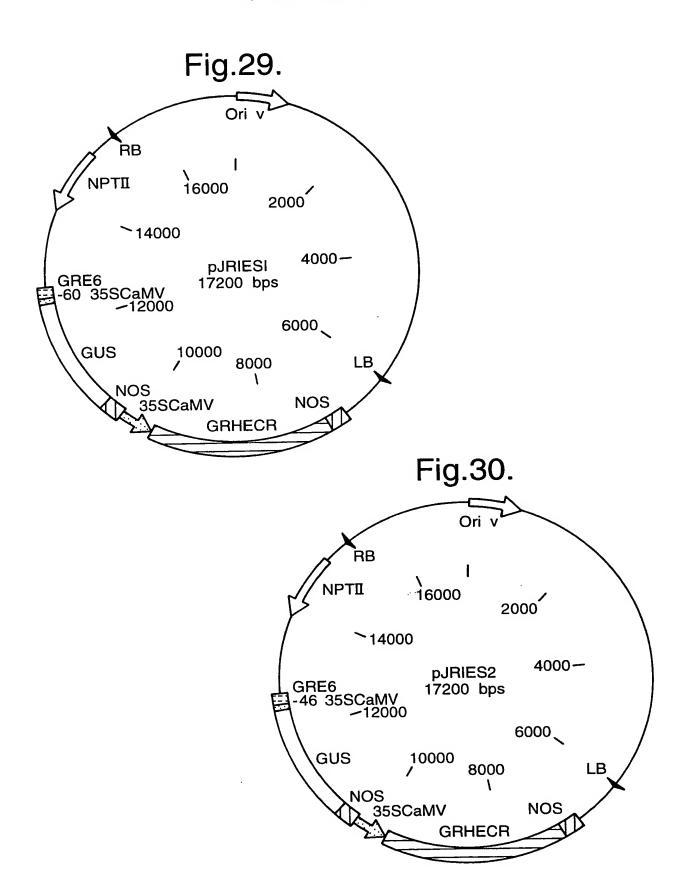


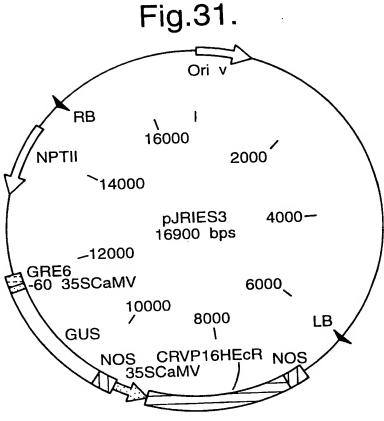
Fig.25.

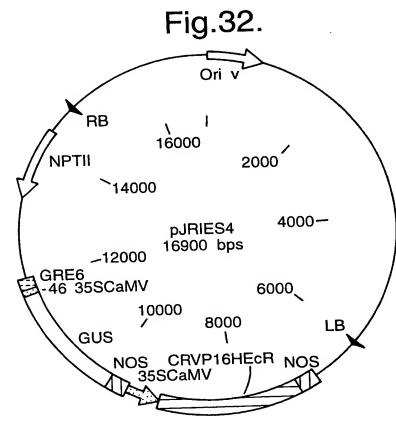


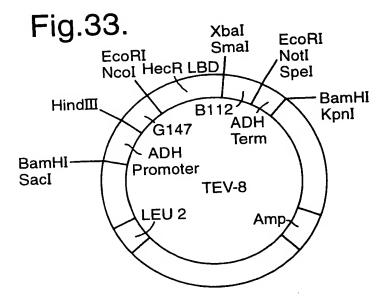


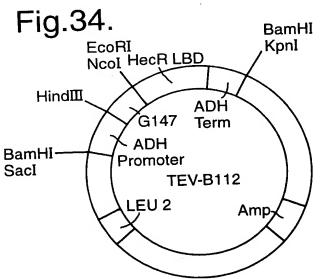












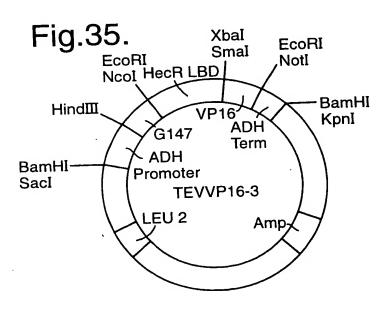


Fig.36.

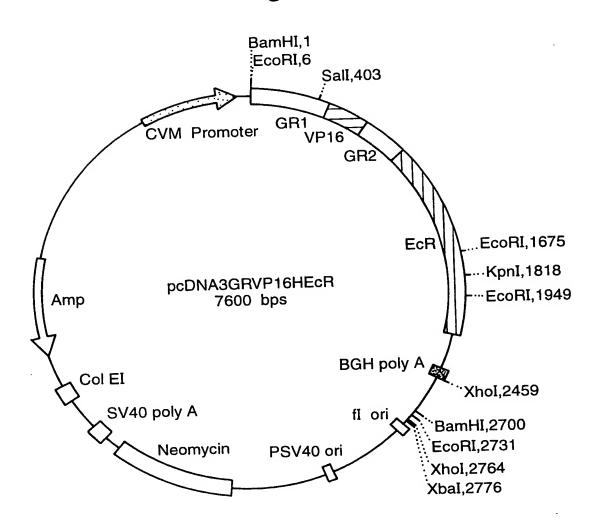


Fig.37.

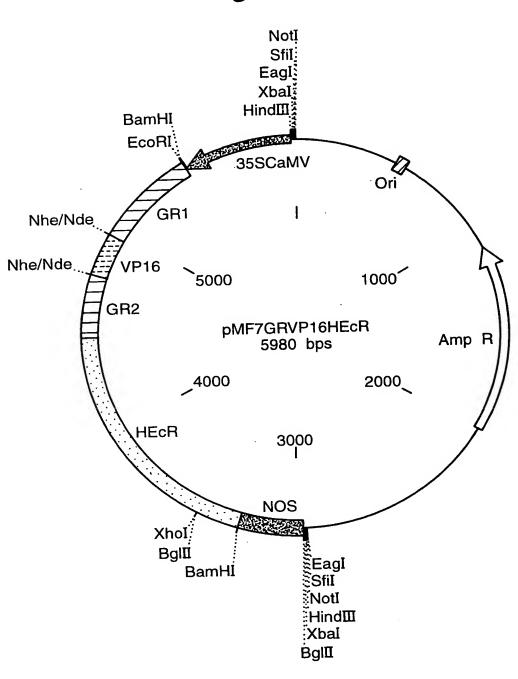
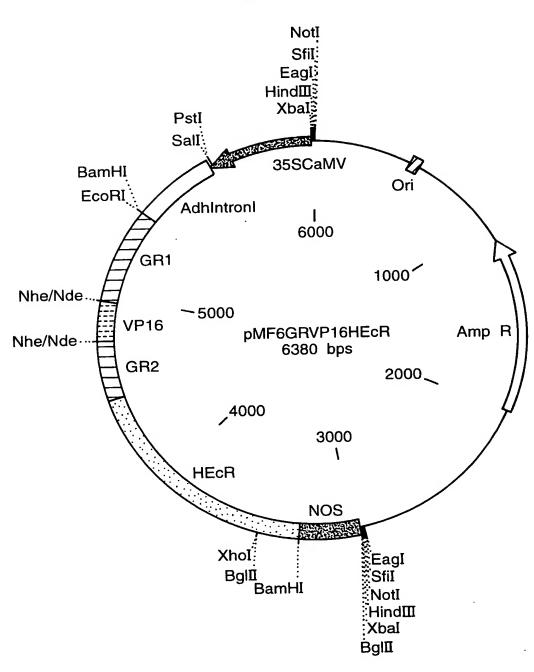
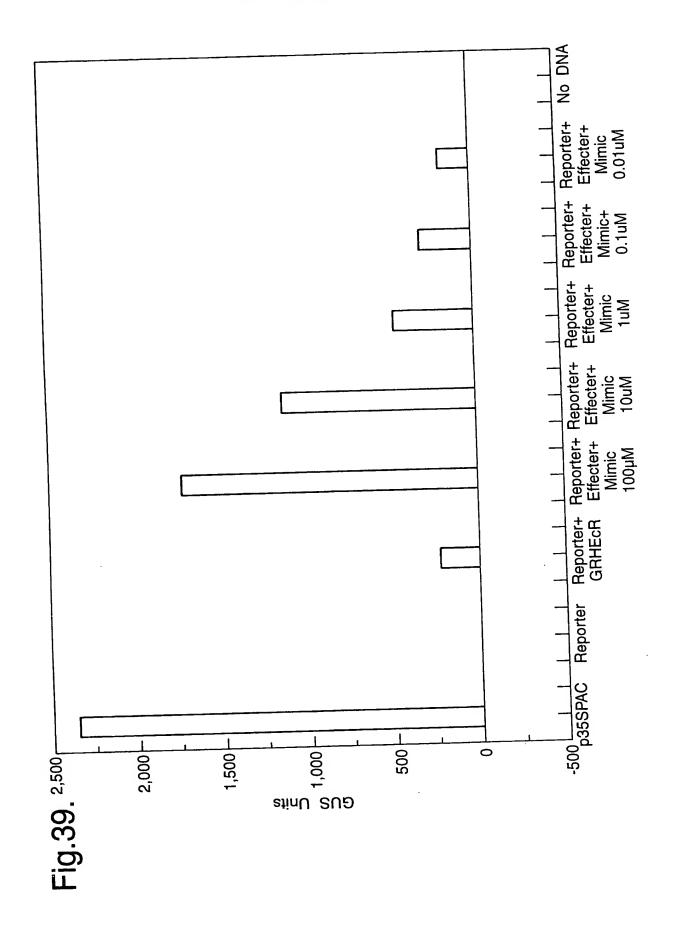


Fig.38.





CGA

CCA

GTG

GAG

CAC

ATT

AGA

GCA

ည် ကို

GAG

CCA

CCA

136

GGA

GTG

TTA

AAG

CTC

AGG

ACA

AGG

GAC

ATG

CTA

AAG

GAA

AAT TTA

CTG

TTC

181

AAT

CTG

GGT

GCT

CTC

AGC

AAT

CTT

GTC

GAA

CCA

CAA

TGC

CAC

000 000 000 000

CCT GGA

226

GAG

AAG

AAA TTT

TCT

GGA

AGA

AGA

ATC

SGG

ACA

TGA

CTA

AGG

AGA

CCA

GTA CAT

271

ggg

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Fig.40.

Spodoptera exigna DNA sequence

Sequence ID 6

SPODOPTERA EXIGUA HINGE AND LIGAND BINDING DOMAINS

45	AGĠ TCC	AGT	GAT	
	AAA TTT	GTC	TGT	
გ —	ATG	CCA	CAG	
	GCA	TTG	ATG	
33	TGT	AAG TTC	ATT TAA	
	CAG	GAC	222	
27	AAC TTG	AAA TTT	CCT	
	GAA	GAA	ATG TAC	
21	CCA	AGG	CAC	
	GTG	CAA	GAT	
15	GTG	GCA	GAT	
	TGC	AAG	GTG	
ο.	GAG CTC	AAA TTT	ACA	
	000 000	GAG	ACG	
m ·	AGG TCC	AAA TTT	ACA TGT	
	Н	46	91	

GTT CAA	TGT	GTC	GAT	GTT	900 000	GTG	CAC	CCT	GGT
) 990 000	CAT GEA	ACA	GAT	CGT	CAA	ည် ၁၁၁	GCT	AAC	900
CAT (GIA (	GCT (CGA (	CTC	GGT	CAG	၁၁၁	CTG	ACT	GCT	GCT
GGA (CCT (	GCA (CGT)	GAT	TGA	AGA TCT	CTA	CTT	TGC	TGA	CAC
GTC (CAG (	AGT (TCA	AAA TTT	GAG	GAC	CAA	GCA	CTA	GCT	GAA
AGA (TCT	CAC	ညည	TTC	990 900	CGA	GCT	CCA	000 000	CCT
AGA I	CCT	GTT CAA	CTG	000 000	9 9 9 9	CCT	CGT	ACC	TTA
CGA 7	GAT	AGC	999 999	CGA	CAC	GGA	TAA	000 000	ATA
AGA (TCT	GAC	ACC	AAA TTT	GTA	GTA	CGA	GGA	AGA	GAG
TGA	GAT	CCT	ATT TAA	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	999 999	CAT	GAT	CTC	CCA
GGA CCT	CGA	999	ATT TAA	TCG	CCA	CGT	GAT	TTT	GAT
GTC	CAC	TAA ATT	CAC	AGC	CAA	CTA	CAT	CAT	GGA CCT
ACA .	GAT	၁၅၁ ၁၅၁	GAT	AGT	CAA	ည် ၁၅၁၁	CTC	CGT	GGA
CAC	TCA	ATT TAA	TCA	ဗ္ဗဗ္ဗ ဗဗ္ဗ	000 000	CAT	GTA	CAT	GGT
AGT O	000 000	TGA	GGA	GTT	GTT CAA	AGG	CAT		GTT
316	361	406	451	496	541	586	631	919	721

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GTA

CGA

CAT GTA
TGT
ပ္ပပ္ပ ဗဗ္ဗဗ္ဗ
CTG
GTG
900 000
GTC
TCG
CAG
GAA
CCA
GAA
CCT
CAT
GTA
166
: <u>:</u>
Fig.40
Fig

CCT GAC 909 000 GCT GGA GAC CCT CAT CCT GAT CTA 811

CAG GAA GAA GCT CAA ACT TGA CTC CAT GTG CAT CAA GTT CTC GAA CAT 856

CCT CGT GGA CTG TAT CGA CTT GTT 900 000 000 ည် ကို CGT GAA 901

946 AAA TTT Total number of bases is: 948.

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Fig.41.

Sequence I.D. 7

## comparison between Heliothis 19R clone and SECR Taq clone

Sequence

RPECVVPENQCAMKRKEKKAQREKDKLPVSTTTVDDHMPPIMQCDPPPPEAARILECVQ RPECVVPENQCAMKRKEKKAQREKDKLPVSTTTVDDHMPPIMQCDPPPPEAARI HECR SECR

HEVVPRFLNEKLMERTRLRNVPPLTANQKSLIARLVWYQEGYEQPSEEDLKRVTQSD HEVVPRFLINEKLMEQNRLKNVPPLTANQKSLIARLVWYQEGYEQPSEEDLKRVTQSD HECR SECR

EDDEDSDMPFRQITEMTILTVQLIVEFAKGLPGFAKISQSDQITLLKACSSEVMMLR EDEEESDMPFRQITEMTILTVQLIVEFAKGLPAFAKISQSDQITLLKACSSEVMMLR HECR SECR

VARRYDAATDSVLFANNQAYTRDNYRKAGMAYVIEDLLHFCRCMYSMMMDNVHYALL VARRYDAATDSVLFANNQAYTRDNYRKAGMAYVIEDLLHFCRCMYSMMMDNVHYALL HECR SECR

TAIVIFSDRPGLELTLLVEEIQRYYLNTLRVYILNQNSRSPCCPVIYAKILGILTEL TAIVIFSDRPGLEQPLLVEEIQRYYLNTLRVYILNQNSASPRGAVIFGEILGILTEI HECR SECR

HECR RTLGMQNSNMCISLKLKKRKLPPFLEEIDWDV SECR RTLGMQNSNMCISLKLKNKNVPPFFEDIDWDV Title: METHOD FOR CONTROLLING

GENE EXPRESSION IN A CELL Inventor: Jepson et al. Atty Docket: 1392/4/3/2

